

ABSTRACT

The present invention provides a polymer blend for fabricating monolayer films or a layer within a multilayer film. The blend has a first component and a second component. The first component is selected from the group of: (1) an ethylene and α -olefin copolymer having a density of less than about 0.915 g/cc, (2) lower alkyl acrylates, (3) lower alkyl substituted alkyl acrylates and (4) ionomers. The first component should be present in an amount from about 99% to about 55% by weight of the blend. The second component in an amount by weight of the blend from 45% to about 1% and consists of one or more polymers of the group: (1) propylene containing polymers, (2) polybutene polymers, (3) polymethylpentene polymers, (4) cyclic olefin containing polymers and (5) bridged polycyclic hydrocarbon containing polymers. When the blend is fabricated into a film it has a modulus of elasticity when measured in accordance with ASTM D882 of less than about 60,000 psi, an internal haze when measured in accordance with ASTM D1003 of less than about 25%, an internal adhesion ranking of greater than about two, a sample creep at 120°C under 27 psi loading of less than or equal to 150% for a film having a thickness from about 5 mils to about 15 mils, and the film being capable or being heat sealed into a container having seals wherein the seals remain intact when the container is autoclaved at 121°C for one hour.

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